IN THE SPECIFICATION

Please replace the paragraph beginning at page 1, line 14, which starts with "Figure 1", with the following amended paragraph:

---Figure 1 is a block diagram illustrating an operation control apparatus of a reciprocating compressor in accordance with the conventional art. As depicted in Figure 1, the operation control apparatus of the reciprocating compressor includes a current detector 150 for detecting current applied to a motor; a voltage detector 140 for detecting a voltage applied to the motor; a stroke estimator [[5]] 130 for estimating a stroke on the basis of the detected current, voltage and a motor constant; a comparator 100 for comparing the estimated stroke with a preset stroke reference value and outputting a difference value according to the comparison result; and a controller 110 for controlling a stroke of the compressor by varying a voltage applied to the motor according to the difference value.---

Please replace the paragraph beginning at page 2, line 3, which starts with "First, the current", with the following amended paragraph:

---First, the current detector 150 detects current applied to the motor, and the voltage detector 140 detects a voltage applied to the motor. Herein, the stroke estimator 130 calculates a stroke estimation value of the compressor with Equation 1 by substituting the detected current value, the detected voltage value and a motor constant ~~motor~~ and applies the calculated stroke estimation value to the comparator 100.---

Please replace the paragraph beginning at page 6, line 21, which starts with "Figure 3", with the following amended paragraph:

---Figure 3 is a block diagram illustrating an operation control apparatus of a reciprocating compressor in accordance with the present invention. As depicted in Figure 3, the operation control apparatus includes a voltage detector 390 for detecting a voltage applied to the motor of a compressor 300; a current detector 380 for detecting current applied to the motor; a first stroke estimator 370 for estimating a first stroke by using the voltage, the current and a constant of the motor; a phase difference detector 360 for detecting a difference value between a phase of the stroke estimation value from the first stroke estimator 370 with a phase of the motor current; a searching coil voltage detector 350 for detecting a voltage applied to a searching coil according to the detected phase difference; a counter electromotive force extractor 340 for extracting a counter electromotive force by receiving the detected voltage; a second stroke estimator 330 for estimating a second stroke by using the counter electromotive force; a comparator 310 for comparing the second stroke estimation value with the stroke reference value and outputting a comparison value according to the comparison result; and a control unit 320 for controlling a stroke by varying the voltage applied to the motor according to the comparison result from the comparator 310.---